Algebra II

Physics

Supplies: meterstick/yardstick, stopwatch, computer

Directions:

Throw underhand from 1 yard

You will need to throw 2 different objects (Each person needs to do this.)

Time from the time you let go until it hits the ground

Rotate between meterstick holder, thrower, timer/recorder, and gopher

Write down each person’s time. (Each person should have two.)

When you get back to the classroom, write down your two times.

Physics equation (for feet and seconds):

h=-16t2 + v0t + h0

vo is initial velocity

h0 is initial height which is 3 feet for our experiment

h is final height in feet

t is time in seconds

**ASSIGNMENT**

**Please write the following on your blog.**

1. Explain the activity (3 points)
2. Write the general equation for a projectile that is given above (1 pt)
3. Find the initial velocity for YOUR two throws (4 pts)
4. Write the general quadratic equation filling in the initial velocity and height. You should have two. (2 points)
5. Find the time at which the item reached its highest point for each equation. EXPLAIN HOW YOU FOUND IT. (Round to the nearest tenth.) (5 pts)
6. Find how high the object went. (Round to the nearest tenth.) EXPLAIN HOW YOU FOUND IT. (5 points)

Due Friday